SYSTEM AND METHOD USING A PACKETIZED ENCODED
BITSTREAM FOR PARALLEL COMPRESSION AND DECOMPRESSION

ABSTRACT OF THE DISCLOSURE

5   A system and method are disclosed for parallel
compression and decompression of a bitstream. For
compression, the bitstream is separated into a plurality
of components, and the components are encoded using a
compression algorithm. Packets are then constructed from
10   the encoded components. At least one packet is
associated with each encoded component and comprises
header information and encoded data. The packets are
combined into a packetized encoded bitstream. For
decompression, the packets are separated from the
15   packetized encoded bitstream using the header
information. The packets are then decoded in parallel
using a decompression algorithm to recover the encoded
data. The plurality of components are reconstructed from
the recovered encoded data and combined to recover the
20   bitstream.